

**WHAT IS CLAIMED IS:**

1. A display controlling apparatus, comprising:  
data outputting units to be electrically connectable to respective display  
5 apparatuses;

an information inputting unit to be operable to have inputted therein information to  
be required for said display apparatuses to display on screens;

a controlling unit for producing contents to be displayed by said display  
apparatuses from said information inputted by said information inputting unit; and

10 a video memory having stored therein said contents produced by said controlling  
unit, wherein

said controlling unit is operative to output said contents stored in said video  
memory to said display apparatuses through said data outputting units.

15 2. A display controlling apparatus as set forth in claim 1, in which

said controlling unit is operative to adjust the resolution of each of said contents to  
be displayed by said display apparatuses on the basis of the number of said display  
apparatuses electrically connected to said signal outputting units, and to output said contents  
to be displayed at said adjusted resolution by said display apparatuses through said data  
20 outputting units, and in which

said controlling unit is operative to maintain said resolution of each of said contents  
to be displayed by said display apparatuses when the judgment is made that said number of  
said display apparatuses is equal to one.

25 3. A display controlling apparatus, comprising:

data outputting units to be electrically connectable to respective display  
apparatuses;

an information inputting unit to be operable to have inputted therein data to be  
required for said display apparatuses to display on screens;

30 a controlling unit for producing image data on contents to be displayed by said  
display apparatuses on the basis of said information inputted by said information inputting  
unit; and

a video memory having stored therein said image data produced by said controlling  
unit, wherein

35 said controlling unit is operative to output said contents to said display apparatuses  
through said data outputting units on the basis of said image data stored in said video

memory.

4. A display controlling apparatus as set forth in claim 1, in which  
said image data has layers to be collectively defined as data structure, and in which  
5 each of said contents to be displayed by said display apparatuses is constituted by  
data assigned to one or more of said layers.

5. A display controlling apparatus as set forth in claim 1, in which  
said controlling unit is operative to allow said contents to be sequentially received  
10 by said display apparatuses through said data outputting units in order of said data  
outputting units electrically connected to said display apparatuses in a period of a  
synchronization signal.

6. A display controlling apparatus as set forth in claim 5, in which  
15 the number of said display apparatuses electrically connected to said data  
outputting units is equal to two, and in which  
said controlling unit is operative to allow said contents to be received by one of  
said two display apparatuses on each of leading edges of said synchronization signal, and to  
allow said contents to be received by the other of said two display apparatuses on each of  
20 trailing edges of said synchronization signal.

7. A display controlling apparatus as set forth in claim 1, in which  
each of said display apparatuses electrically connected to said data outputting units  
has an operating unit for issuing an instruction to said controlling unit to select one or more  
25 contents, and in which  
said controlling unit is operative to judge whether or not one or more contents  
selected by one of said display apparatuses are the same as one or more contents which are  
being outputted to the other of said display apparatuses, and to allow one of said display  
apparatuses to display information on whether or not one or more contents selected by one  
30 of said display apparatuses are the same as one or more contents which are being outputted  
to the other of said display apparatuses in response to said instruction issued by said  
operating unit of one of said display apparatuses.

8. A display controlling apparatus as set forth in claim 1, in which  
35 each of said display apparatuses electrically connected to said data outputting units  
has an operating unit for issuing an instruction to said controlling unit to select one or more

contents, and in which

said controlling unit is operative to judge whether or not one or more contents selected by one of said display apparatuses are the same as one or more contents which are being utilized through said operating unit to the other of said display apparatuses, and to  
5 allow one of said display apparatuses to display information on whether or not one or more contents selected by one of said display apparatuses are the same as one or more contents which are being outputted to the other of said display apparatuses in response to said instruction issued by said operating unit of one of said display apparatuses.

10 9. A display controlling apparatus as set forth in claim 7, in which  
said information displayed by one of said display apparatuses is represented by a pointer.

15 10. A display controlling apparatus as set forth in claim 7, in which  
said controlling unit is operative to allow one or more contents to be utilized through said operating unit of one of said display apparatuses with the restriction on the use of said contents after allowing one of said display apparatuses to display said information that one or more contents selected by one of said display apparatuses are the same as one or more contents which are being outputted to the other of said display apparatuses.

20 11. A display controlling apparatus as set forth in claim 1, in which  
said display apparatuses each has an operating unit for issuing an instruction to said controlling unit to output one or more contents, said display apparatuses being assigned to respective priority sequences, in which

25 said controlling unit is operative to judge whether or not one or more contents which are being outputted to one of said display apparatuses are the same as one or more contents selected by the other of said display apparatuses before judging whether or not one of said display apparatuses exceeds in priority sequence the other of said display apparatuses when the judgment is made that one or more contents selected by the other of  
30 said display apparatuses are the same as one or more contents which are being outputted to one of said display apparatuses, and in which

said controlling unit is operative to allow the other of said display apparatuses to display one or more contents the same as one or more contents which are being outputted to one of said display apparatuses with the restriction on the utilization of said contents when  
35 the judgment is made that one of said display apparatuses exceeds in priority sequence the other of said display apparatuses.

12. A display controlling apparatus as set forth in claim 11, in which  
said controlling unit is operative to allow said priority sequence assigned to each of  
said display apparatuses to be changed by each of said operating unit of said display  
5 apparatuses.

13. A display controlling apparatus for allowing display apparatuses to display  
respective images represented by image data, comprising:

a multiplexing unit for multiplexing said image data indicative of said images to be  
10 displayed by the display apparatuses;

a buffer memory having stored therein said multiplexed image data; and

demultiplexing unit for demultiplexing said multiplexed image data stored in said  
buffer memory to output said demultiplexed image data to each of said display apparatuses.

14. A display controlling apparatus as set forth in claim 13, which further comprises:  
a synchronization signal producing unit for producing a synchronization signal to  
be constituted by a pulse string having a predetermined period, and in which

said demultiplexing unit is operative to demultiplex said multiplexed image data  
stored in said buffer memory by allowing said multiplexed image data to be selectively  
20 received by each of said display apparatuses in said predetermined period of said  
synchronization signal.

15. A display controlling apparatus as set forth in claim 13, which further comprises:  
a synchronization signal producing unit for producing a synchronization signal to  
25 be constituted by a pulse string having a predetermined period, and in which

said demultiplexing unit is operative to demultiplex said multiplexed image data  
stored in said buffer memory by allowing said multiplexed image data to be received by one  
of said two display apparatuses on each of leading edges of said synchronization signal, and  
to be received by the other of said two display apparatuses on each of trailing edges of said  
30 synchronization signal.

16. A display controlling apparatus as set forth in claim 13, in which

said multiplexing unit is operative to adjust said resolution of each of said images  
to be respectively displayed by the display apparatuses on the basis of the number of said  
35 display apparatuses electrically connected to said data outputting units to multiplex image  
data indicative of said images to be respectively displayed by the display apparatuses at said

adjusted resolution.

17. A display controlling apparatus as set forth in claim 16, in which  
said multiplexing unit is operative to adjust said resolution of each of said images  
5 to be respectively displayed by the display apparatuses in inverse proportional relationship  
with the number of said display apparatuses electrically connected to said data outputting  
units.